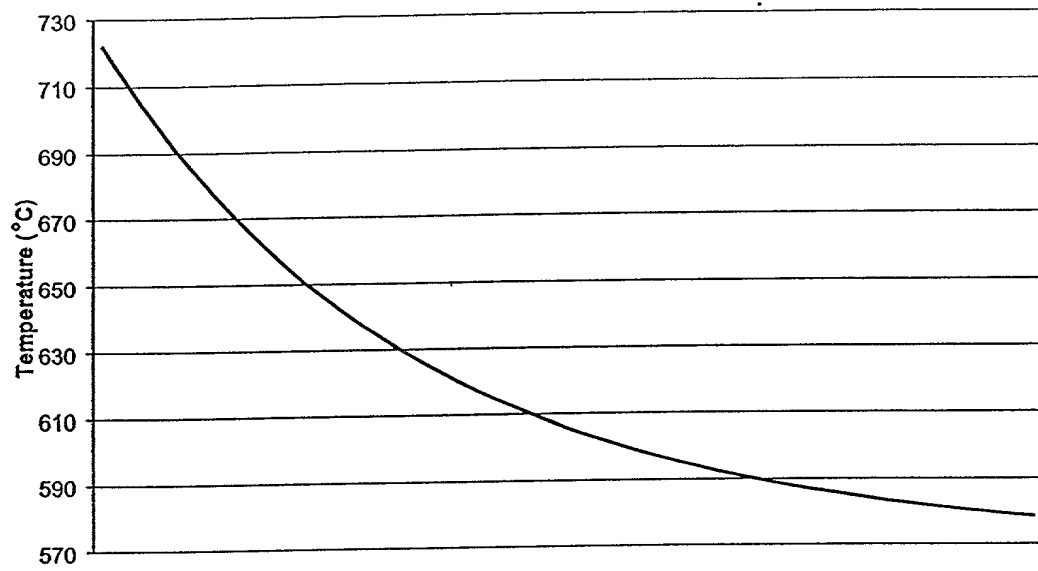


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Reactant exit temperature profile across heat exchanger

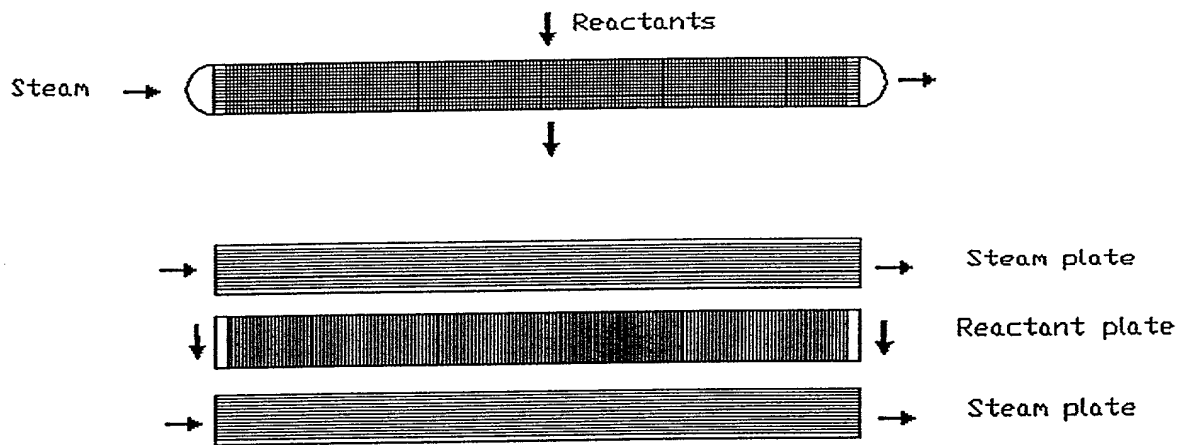


FIGURE 1: Reactant exit temperature profile in 1-pass cross-flow contact

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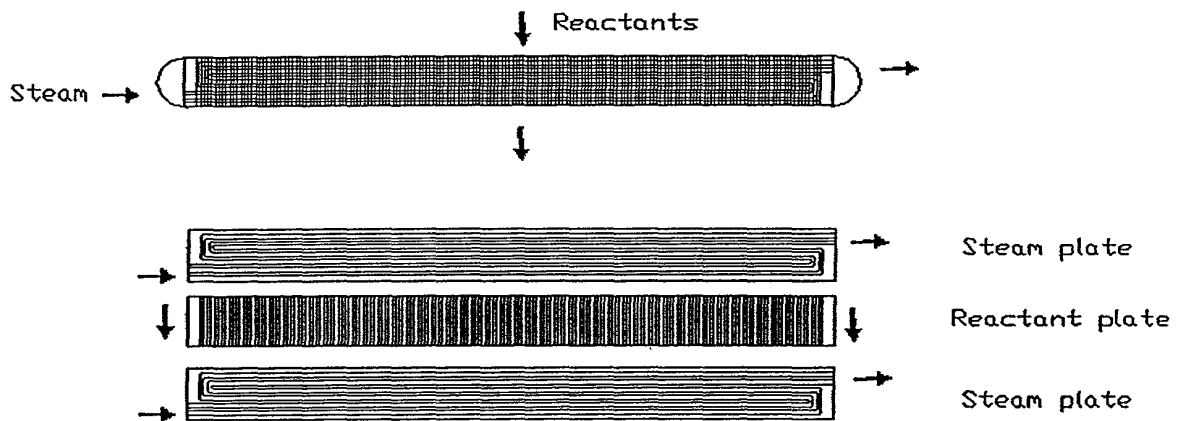
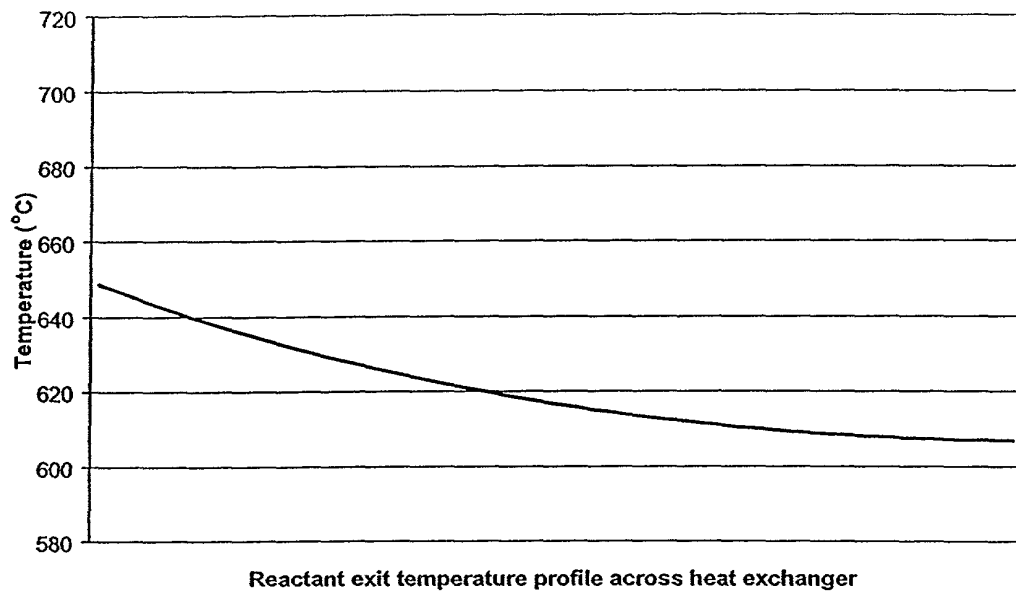
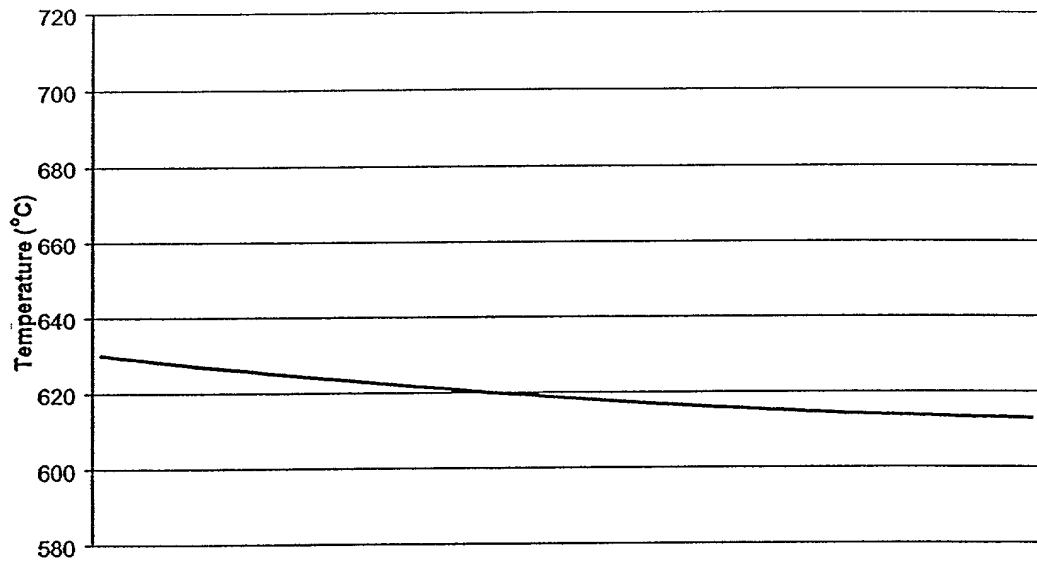


FIGURE 2: Reactant exit temperature profile in 3-pass counter-flow contact

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Reactant exit temperature profile across heat exchanger

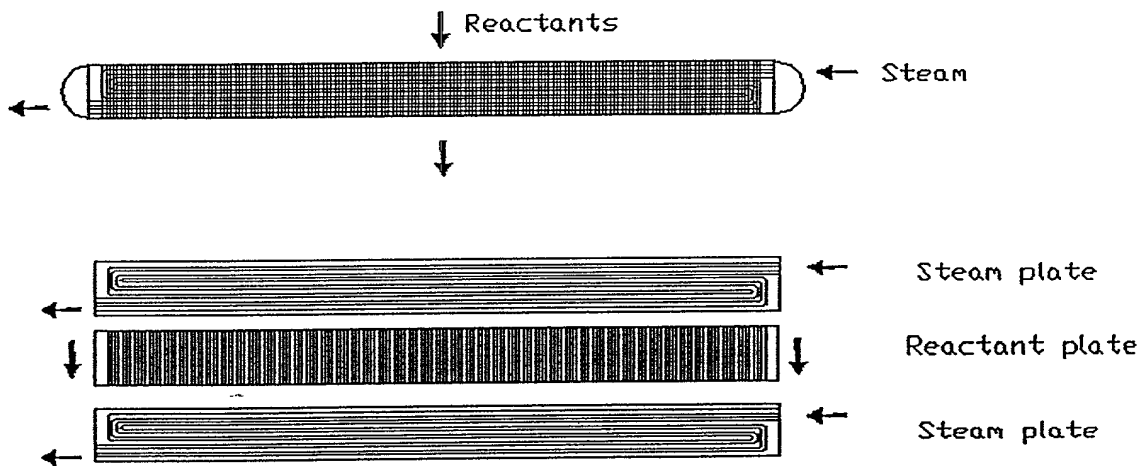
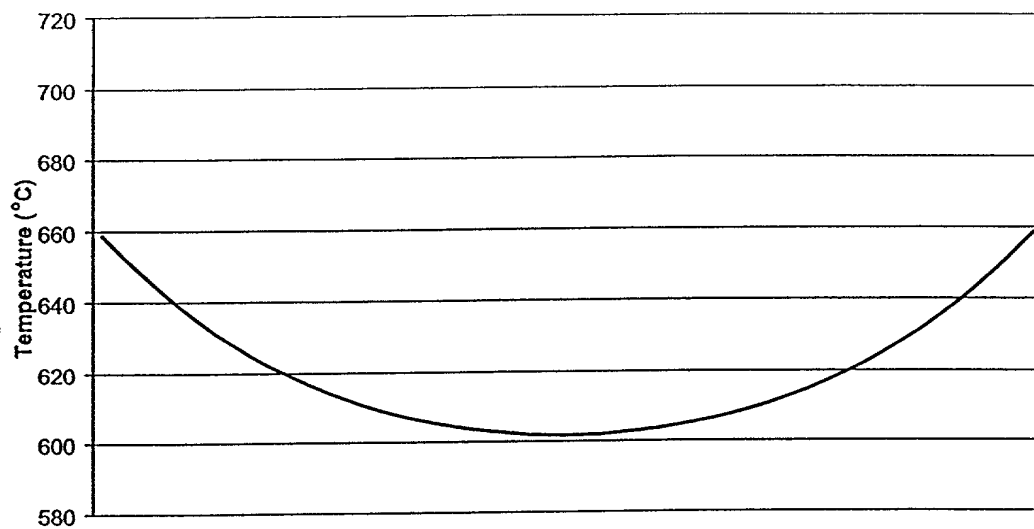


FIGURE 3: Reactant exit temperature profile in 3-pass co-flow contact

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Reactant exit temperature profile across heat exchanger

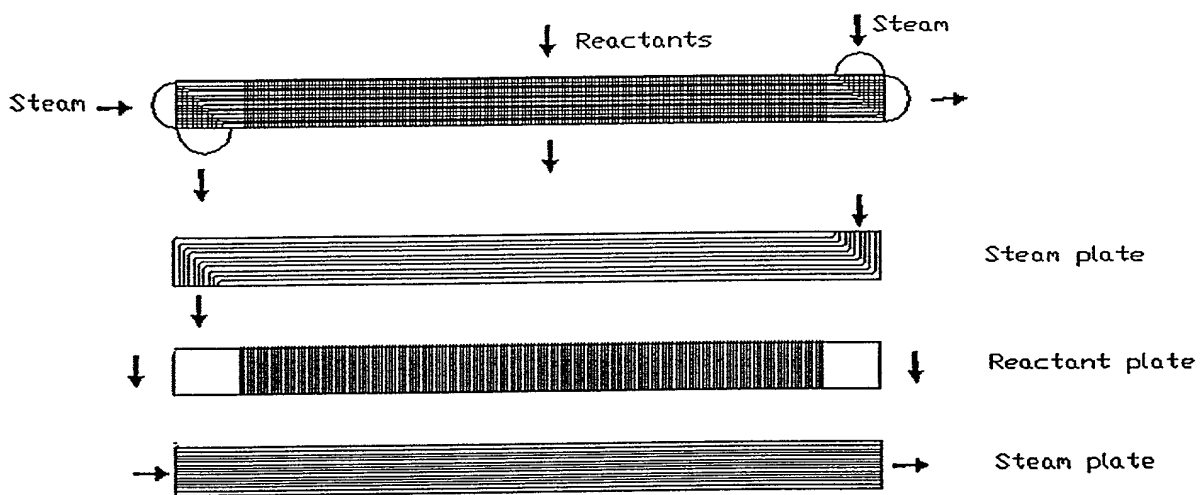
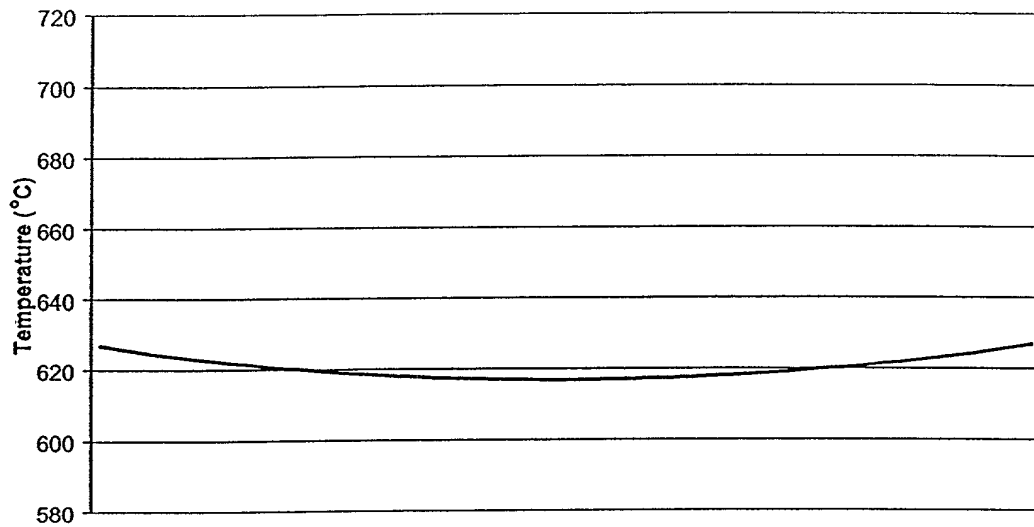


FIGURE 4: Reactant exit temperature profile in 2-way 1-pass cross-flow contact

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Reactant exit temperature profile across heat exchanger

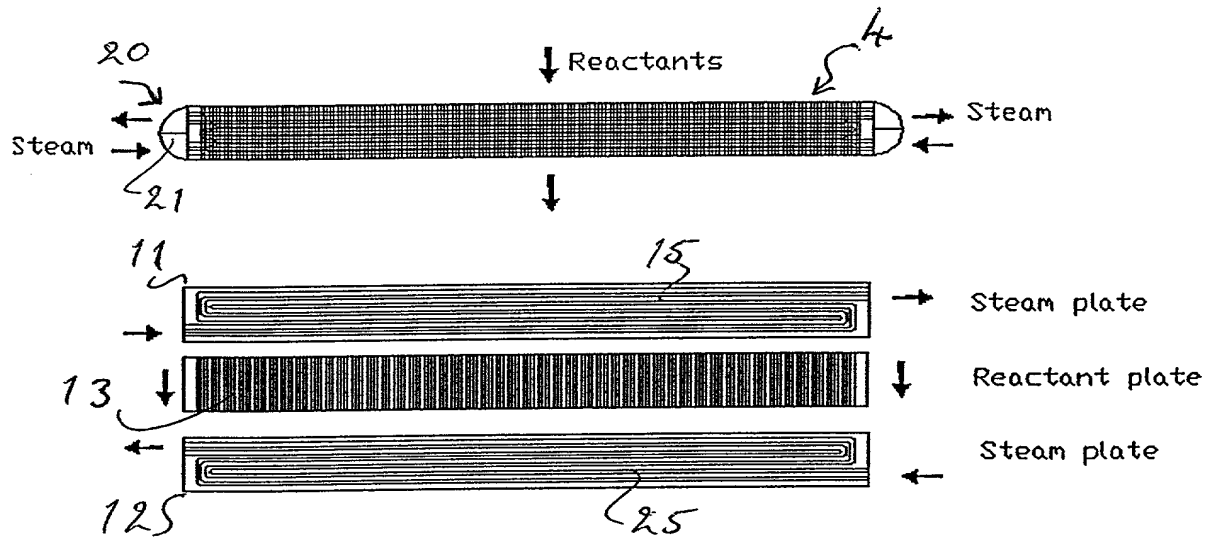
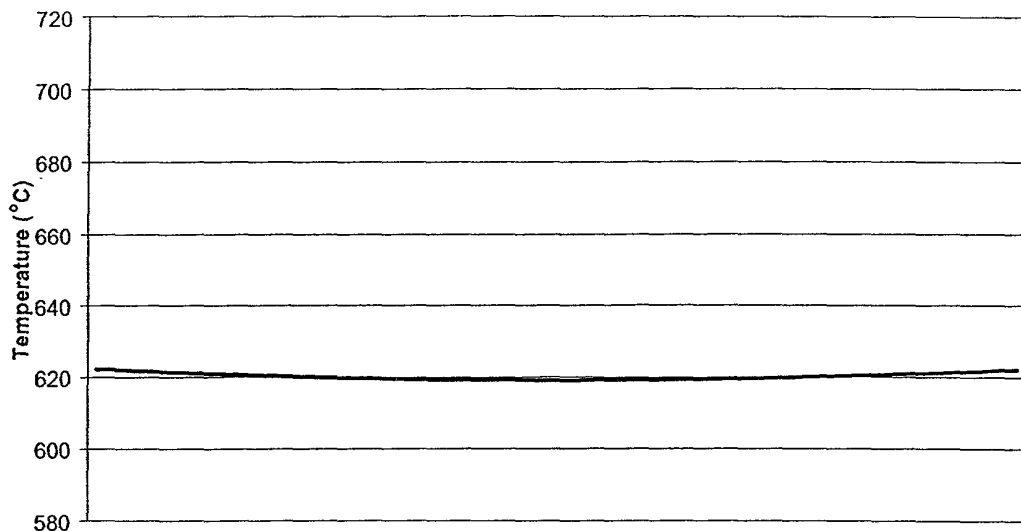


FIGURE 5: Reactant exit temperature profile in 2-way 3-pass counter-flow contact

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Reactant exit temperature profile across heat exchanger

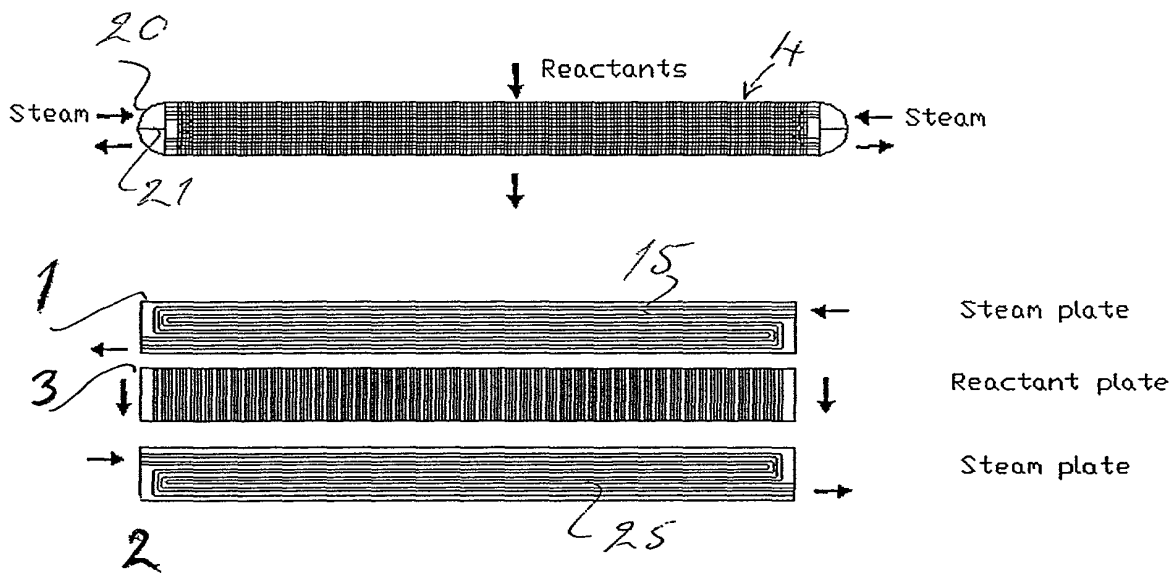


FIGURE 6: Reactant exit temperature profile in 2-way 3-pass co-flow contact

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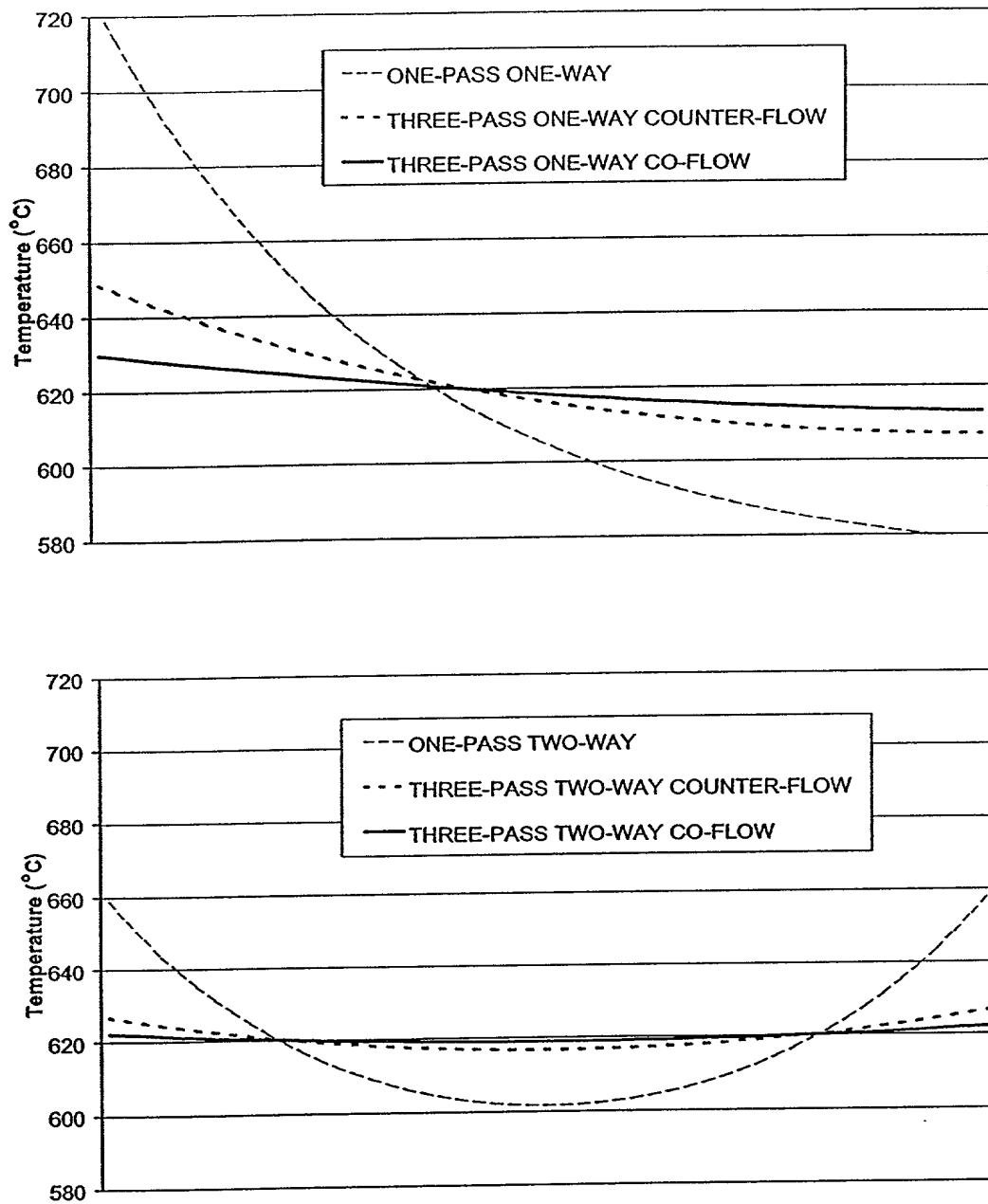


FIGURE 7: Overview of reactant exit temperature profiles.

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### THREE-PASS TWO-WAY CO-FLOW

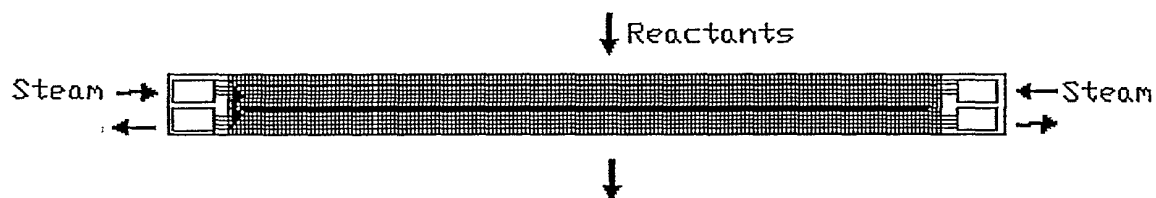


FIGURE 8: "Ported" style of plate construction.

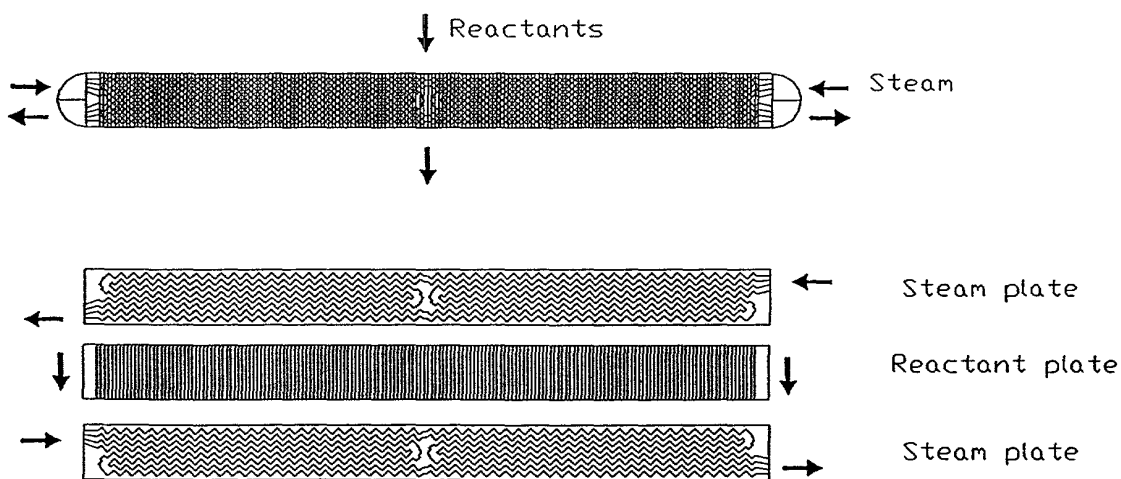


FIGURE 9: Two-pass and zig-zag passage arrangement on steam side.



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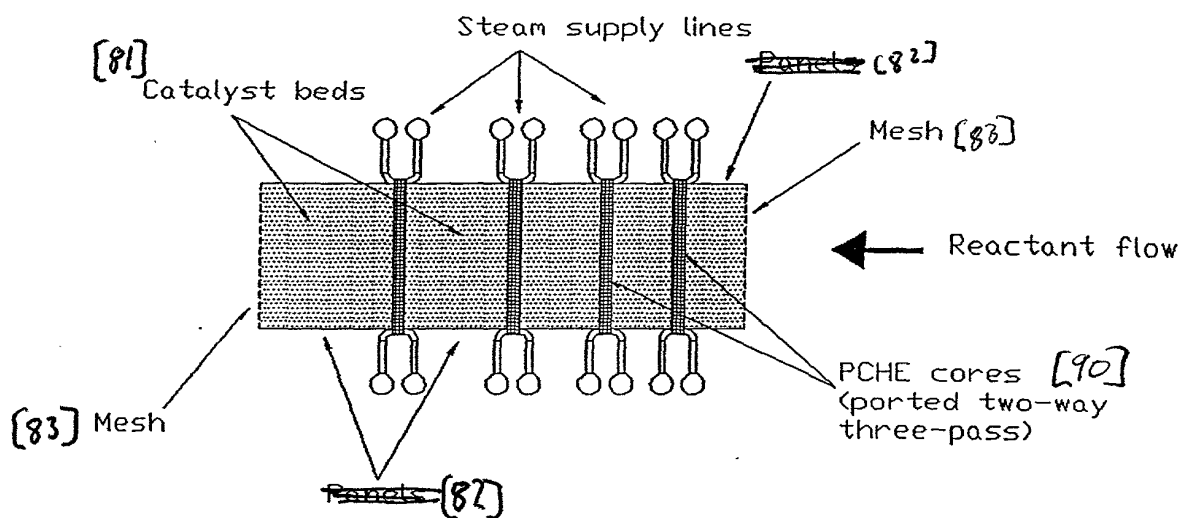


FIGURE 10: Styrene PCR layout (plan view).